



Sunspalsh Overhead Projector

2000/2200 Lumen Model SP2123A/2223A

Operator's Manual

– Important! – **Immediately Check for Loose Lamps**

Open top stage by pressing the release tab located on the mast side of the stage. Check to see that the lamps are fully inserted into the socket and correctly aligned. Never touch the lamp with your bare skin. Do not get skin oil on the bulb. Hold lamp with tissue, paper, cloth or other clean object.

Electrical Safety Grounding Instructions

This Class I product uses a three-wire power cord that grounds the product for your protection. Do not DEFEAT or REMOVE the grounding pin. If an extension cord is used, it must also be a three-wire type with an ampere rating equal or greater than the product's rating. The plug must be connected to a properly grounded three-terminal power receptacle. Connection to any other type of receptacle should be done only by a qualified electrician in accordance with local and/or national electrical codes.

Operation

The projector features a folding mast. The mast can be lowered by pulling the release knob located at the bottom pivot assembly.

The power switch is located on the front of the unit.

The stage can be opened by pressing the release tab located on the mast side of the stage.

Be sure vent area are not blocked.

There is a thermal switch to prevent overheating.

The lamp changer is operated by rotating the knob on the front of the unit.

To prevent damage to good lamps, only use the changer after lamps have cooled.

Cleaning

Use a soft, lint-free cloth to remove dust from stage glass and projection lens. Lens cleaner may be used on these components.

For mirrors, use a soft brush to remove dirt.

Lamp Replacement

2000/2200 lumen projectors use a 360 Watt EYB lamp, Dukane part number 456-186. **WARNING!** Lamp and adjacent parts are HOT. Allow the lamp to cool. The lamp glass envelope may shatter. Avoid placing near eyes. Hold lamp with cloth, tissue or gloved hand. Do not get skin oil on the bulb.

IMPORTANT SAFETY INSTRUCTIONS

When using your overhead projector, basic safety precautions should always be followed, including the following:

1. Read and understand all instructions before using.
2. Close supervision is necessary when any projector is used by or near children. Do not leave projector unattended while in use.
3. Care must be taken as burns can occur from touching hot parts.
4. Do not operate projector with a damaged cord or if the projector has been dropped or damaged — until it has been examined by a qualified service technician.
5. Position the cord so that it will not be tripped over, be pulled or contact hot surfaces.
6. If an extension cord is necessary, a cord with a current rating at least equal to that of the projector should be used. Cords rated for less amperage than the projector may overheat.
7. Always unplug projector from electrical outlet before cleaning and servicing and when not in use. Never yank cord to pull plug from outlet. Grasp plug and pull to disconnect.
8. Let projector cool completely before putting away.
9. To protect against the risk of electric shock, do not immerse this projector in water or other liquids.
10. To avoid the risk of electric shock, do not disassemble this projector, but take it to a qualified service technician when some service or repair work is required. Incorrect reassembly can cause electric shock when the projector is used subsequently.
11. The use of an accessory attachment not recommended by the manufacturer may cause a risk of fire, electric shock or injury to persons.
12. Connect this projector to a grounded outlet.
13. Disconnect this unit from its source of supply before replacing the projection lamp.

Additional lamp safeguards: never handle lamps with bare fingers; periodically inspect lamps, when they're turned off, for signs of blistering or blackening; insure proper action of the cooling system; turn off the projector immediately if the image becomes abnormally dim; never operate a projector with the lamp housing open; and make sure that the lamp itself is properly seated.

SAVE THESE INSTRUCTIONS

Audio Visual Products

Trouble Shooting

Symptom	Probable Cause	Solution
Neither lamp or fan operate	a. Unit unplugged b. No power at wall outlet c. Stage not closed d. Stage installed backwards e. Damaged part	a. Plug unit into outlet b. Verify outlet has power c. Close stage d. Install stage correctly e. Obtain service
No lamp, fan runs	a. Burned-out lamp b. Lamp changer not engaged c. Lamp not seated in receptacle	a. Replace lamp b. Slide changer arm into position c. Seat lamp
New lamp installed, lamp still not on, fan runs	a. Defective lamp b. Defective electrical system	a. Try another new lamp b. Obtain service
No fan, lamp on	a. Fan is obstructed b. Fan motor has burned out	a. Obtain service b. Obtain service

Service

Service and parts are available from Dukane or from an approved service station. Contact the Dukane Service Department at 1-800-676-2487 to order parts or for the nearest service station. Service manuals are also available at a nominal cost.

Optional Accessories:

*To order contact your dealer or call:
1-800-676-2487*

Lamp: EYB, 360 Watt
 Roll Film Adapter kit
 Acetate Roll (50ft)

Part No. 456-186
 Part No. 438-830A
 Part No. 310-6

FIVE-YEAR LIMITED WARRANTY

This Dukane projector is warranted to the original purchaser for a period of five (5) years from the original purchase date – in normal operating conditions – against defects in material and workmanship. DUKANE CORPORATION EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

DURING THE WARRANTY PERIOD, DUKANE CORPORATION'S LIABILITY FOR ANY DEFECTIVE PRODUCT (except for the lamp, which is subject to whatever warranties the manufacturer may provide) IS LIMITED TO THE REPAIR OR REPLACEMENT OF PRODUCT AT DUKANE CORPORATION'S OPTION. REPLACEMENT PRODUCTS MAY BE NEW OR USED (used units will not exceed hours of defective unit). The following are not covered by the limited warranty and Dukane Corporation shall not be liable for:

1. Any product which is not distributed in the U.S.A. or Canada by Dukane Corporation or an authorized dealer.
2. Normal decrease in lamp light output over time.
3. Damage, deterioration or malfunction resulting from:
 - Accident, misuse, abuse, neglect, improper ventilation, fire, dust, smoke, water, lighting or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product (including proper maintenance of air filters).
 - Repair or attempted repair by anyone other than a Dukane Corporation authorized service center.
 - Any shipment of product (claims must be presented to the carrier).
 - Removal or installation of the product.
 - Any other causes which do not relate to a product defect.
 - Use of the product beyond normal operating conditions. Normal operating conditions are defined as product use not in excess of 8 hours per day and 260 days per year.
4. Cartons, carry cases, shipping cases, batteries, or any accessories used in connection with the product.
5. Service required as a result of third party components.
6. Product used as commercial rental units

Dukane corporation will pay labor and material expenses for covered items, but Dukane Corporation will not pay for the following:

1. Removal or installation charges.
2. Cost of technical adjustment, set-up, maintenance, or adjustment of user controls.
3. Payment of shipping and related charges incurred in returning the product for warranty repair.

Dukane Corporation disclaims all liability for incidental or consequential damage of any kind, including all damages arising out of any interruptions in operation of the product and all damages to software.

No person, firm, or representative is authorized to assume any obligation or to make any warranty on behalf of the Dukane Corporation other than as stated above.